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Listing and Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (currently amended) A method for reducing channel change times, comprising:

receiving a channel change command;

initiating caching of an incoming data stream associated with a newly selected channel in response to the channel change command, the incoming data stream including program specific information and synchronization data;

finding the program specific information decoder within the incoming data stream; ~~and~~

transferring the cached data stream for decoding in response to the program specific information; and

finding the decoder synchronization data within the cached data stream.

2. (previously presented) The method of claim 1, wherein the program specific information comprises program association table data and program map table data.

3. (previously presented) The method of claim 1, wherein the step of finding the program specific information includes filtering data from the cached data stream.

4. (previously presented) The method of claim 3, wherein the data filtered from the cached data stream comprises program map table data.

5. (currently amended) The method of claim 1, ~~further comprised of finding sequence header data within the cached data stream~~ wherein the decoder synchronization data corresponds to sequence headers according to the MPEG standards.

6. (previously presented) The method of claim 1, wherein the step of finding the program specific information comprises:

finding program association table data within the incoming data stream;

finding program map table data using the program association table data; and

finding at least one of video program identification data and audio program identification data using the program map table data.

7. (currently amended) An apparatus, comprising:

memory means for initiating caching of an incoming data stream associated with a newly selected channel responsive to a channel change command, the incoming data stream including program specific information and sequence header data;

processing means for finding the program specific information included within the incoming data stream; and

decoding means for finding decoder synchronization data within the cached data stream and for decoding the cached data stream responsive to the program specific information.

8. (previously presented) The apparatus of claim 7, wherein the program specific information comprises program association table data and program map table data.

9. (previously presented) The apparatus of claim 7, further comprising transport means for filtering data, and wherein the processing means finds the program specific information by filtering data from the cached data stream via the transport means.

10. (previously presented) The apparatus of claim 9, wherein the data filtered from the cached data stream by the transport means comprises program map table data.

11. (currently amended) The apparatus of claim 7, ~~further comprised of the decoding means finding sequence header data within the cached data stream~~ wherein the decoder synchronization data corresponds to sequence headers according to the MPEG standards.

12. (previously presented) The apparatus of claim 7, wherein the processing means finds the program specific information by finding program association table data within the incoming data stream, finding program map table data using the program association table data, and finding at least one of video program identification data and audio program identification data using the program map table data.

13. (previously presented) The apparatus of claim 7, wherein the apparatus is a digital subscriber line set-top box.

14. (currently amended) A digital communication apparatus having reduced channel change times, comprising:

means for receiving a data stream;

means for receiving a channel change command;

a cache memory operative to initiate storing of a portion of the data stream in response to the channel change command;

a decoder operative to find and process decoder synchronization data within the data stream and to decode the data stream;

a processor, coupled to the receiving means, the cache memory, and the decoder, for causing, in response to receipt of the channel change command, the portion of the data stream that follows the receipt including program specific information to be stored in the cache memory, for identifying the program specific information in response to the channel change command, and for causing the portion of the data stream stored in the cache memory to the processed by the decoder in response to the identifying of the program specific information.

15. (previously presented) The digital communication apparatus of claim 14, wherein the program specific information comprises program association table data and program map table data.

16. (previously presented) The digital communication apparatus of claim 14, further comprising a transport operative to filter data, and wherein the processor is operative to find the program specific information by filtering data from the cached data stream via the transport.

17. (previously presented) The digital communication apparatus of claim 16, wherein the data filtered from the cached data stream by the transport comprises program map table data.

18. (currently amended) The digital communication apparatus of claim 14, wherein the ~~decoder is further operative to find and process sequence header data within the cached data stream~~ decoder synchronization data corresponds to sequence headers according to the MPEG standards.

19. (previously presented) The digital communication apparatus of claim 14, wherein the processor is operative to find the program specific information by finding program association table data within the incoming data stream, finding program map table data using the program association table data, and finding at least one of video program identification data and audio program identification data using the program map table data.

20. (previously presented) The digital communication apparatus of claim 14, wherein the apparatus is a digital subscriber line set-top box.

21. (currently amended) A method for reducing channel change times, comprising:

receiving a channel change command;

initiating caching of an incoming data stream associated with a newly selected channel in response to the channel change command, the incoming data stream including header information used to start decoding video data included in the incoming data stream;

determining the header information in the incoming data stream; and

decoding the cached data stream in response to the header information.

22. (previously presented) The method of claim 21, wherein the header information corresponds to sequence headers according to the MPEG standards.

23. (previously presented) An apparatus, comprising:

memory for caching an incoming data stream associated with a newly selected channel responsive to a channel change command, the incoming data stream including header information used to start decoding video data included in the data stream;

processor adapted to find the header information included within the incoming data stream, and initiate the caching of the incoming data stream in response to receipt of the channel change command; and

decoder, coupled to the memory, and adapted to decode the cached data stream responsive to the header information.

24. (previously presented) The apparatus of claim 23, wherein the header information corresponds to sequence headers according to the MPEG standards.